

## WHAT IS CLAIMED IS

- 1) An auxiliary unit for sanitising treatments on dental units (R) comprising at least:
  - a fluid supply line (1) connected, at one end, to the general water mains (2) and, at the other, to the dental unit (R) by means of a first branch (3) which supplies at least a series of instruments–patient (4) comprising a plurality of handpieces; first means (5) for intercepting the fluid, being fitted on the handpieces (4) so as to allow the supply, when required;
  - an air supply line (6) connected at its infeed to a source (7) of compressed air and at its outfeed to the dental unit, comprising at least:
    - a body (8), external to the dental unit (R), supporting at least one container (9) of disinfectant / sterilising fluid which can be connected, by means of a first conduit (10), to the fluid supply line (1);
    - second means (11) of interception positioned on the fluid supply line (1) and designed to allow closure of the fluid supply at least in the first branch (3) during the treatment using the disinfectant / sterilising fluid;
    - means (12, 13) for preparing and implementing the treatment, acting at least on the first conduit (10) and on the second means (11) of interception, so as to allow the treatment fluid to pass through the first branch (3).

- 2) The unit according to claim 1, wherein the preparing and implementing means (12, 13) are positioned on a second air supply conduit (14) connected to the air supply line (6), and housed in the support body (8).
- 3) The unit according to claim 1, wherein the preparing and implementing means (12, 13) are positioned on a second air supply conduit (14) connected to the air supply line (6), and housed in the support body (8), and acting on the second means (11) of interception and on third means (15) of interception positioned on the first conduit (10) and housed in the support body (8).
- 4) The unit according to claim 3, wherein the preparing and implementing means (12, 13) are divided and positioned in two separate areas of the second air supply conduit (14), the preparing means (12) being close to the connection between the second conduit (14) and the air supply line (6), so as to allow the activation of the second and third means (11, 15) of interception positioned on the first conduit (10), and the implementation means (13) being positioned on the second conduit (14) and close to fourth means (16) of interception, acting on the first branch (3) of fluid supply to the handpieces (4).
- 5) The unit according to claim 4, wherein the preparing means (12) consist of a first valve (12v) with two positions, respectively, for

closure of the connection between the air supply line (6) and the second conduit (14), and a position connecting the air supply line (6) and the second conduit (14) with two branches (14a, 14b) that connect with the second and third means (11, 15) of interception positioned on the first conduit (10).

- 6) The unit according to claim 5, wherein the second air supply conduit (14) leads to the container (9) of disinfectant / sterilising fluid so as to allow a flow of disinfectant / sterilising fluid in the first conduit (10) at the connecting position of the first valve (12v).
- 7) The unit according to claim 6, wherein the second air supply conduit (14) is equipped with an air filtering unit (17) positioned upstream of the container (9) of disinfectant / sterilising fluid.
- 8) The unit according to claim 6, wherein the second air supply conduit (14) is equipped with means (18) to reduce the pressure of the air so as to allow a controlled flow of the air in the fluid container (9).
- 9) The unit according to claim 5, wherein the second air supply conduit (14) is equipped with a safety air outlet (19) designed to allow the discharge of the air in the closed position of the connection between the air supply line (6) and the second conduit (14).

- 10) The unit according to claim 5, wherein the second air supply conduit (14) is connected to a device (20) to measure and display the pressure in the second conduit (14).
- 11) The unit according to claims 1 and 4, in which the plurality of handpieces (4) on the first fluid supply branch (3) includes a syringe (4s), wherein the implementation means (13) consist of a pneumatically controlled second valve (13v) acting on the fourth means (16) of interception consisting of a third fluid passage valve (16v) positioned on a second branch (21) connecting the first branch (3,) that supplies the syringe (4s), to the branches connecting the remaining handpieces (4) so as to allow the flow of disinfectant / sterilising fluid on programmed activation of the unit (100).
- 12) The unit according to claim 11, wherein the second branch (21) for the passage of the disinfectant / sterilising fluid discharges upstream of the first means (5) of interception positioned on the respective handpieces (4) with respect to the fluid flow direction (F).
- 13) The unit according to claim 11, wherein timer means (22) act on the fourth means (16) of interception to allow programming of the treatment time, that is to say activation of the flow of the fluid, into the first branch (3).

- 14) The unit according to claim 11, comprising means (23) for adjusting the passage of air at the pneumatically controlled second valve (13v) to allow the discharge of the air circulating in the second conduit (14) at the end of the treatment.
- 15) The unit according to claim 3, wherein a check valve (24) is positioned between the second and third means (11, 15) of interception in order to prevent a flow of fluid towards the container (9) of disinfectant / sterilising fluid at the end of the treatment.
- 16) The unit according to claim 1, wherein the support body (8) consists of a protective guard (8c) which can be associated with the dental unit (R).
- 17) The unit according to claim 5, wherein the first valve (12v) is controlled by a relative lever (12a) positioned on the outside of the support body (8).
- 18) The unit according to claim 11, wherein the second valve (13v) is controlled by an appropriate pushbutton (13a) positioned on the outside of the support body (8).
- 19) The unit according to claim 13, wherein the timer means (22) can comprise an adjustment knob (22a) positioned on the outside of the support body (8).